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Date of Deposit: 10/31, 2003

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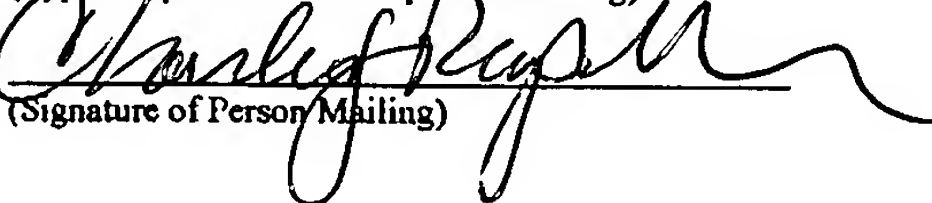
Assistant Commissioner for Patents

PO Box 1450

Alexandria, VA 22313-1450.

Charles J. Rupnick

(Typed or printed name of person mailing)

  
(Signature of Person Mailing)

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

Serial No. : 10/052,715  
Inventor : Richard A. Olzak, et al.  
Filed : January 17, 2002  
TC/A.U. : 2827  
Examiner : John B. Vigushin

Confirmation No.: 1380

Docket No. : H0001886  
Customer No. : 00128

Mail Stop: Non-Fee Amendment  
Commissioner for Patents  
PO Box 1450  
Alexandria, VA 22313-1450

**Affidavit Under 37 C.F.R. § 1.131**

Sir:

I, Richard A. Olzak, resident of City of Kirkland, County of King, State of Washington, a citizen of the United States of America, declare:

1. On personal knowledge the invention recited in the claims of the above captioned patent application was conceived by Richard A. Olzak.
2. On personal knowledge the invention recited in the claims of the above captioned patent application was conceived at City of Redmond, County of King, State of Washington, United States of America.
3. On personal knowledge the invention recited in the claims of the above captioned patent application was conceived on or about 08-14, 2000.

Serial No. 10/052,715  
Affidavit Under 37 CFR § 1.131  
Reply to Office action of July 3, 2003

4. On personal knowledge the invention recited in the claims of the above captioned patent application was reduced to practice on or before to October 16, 2000.

5. On personal knowledge the invention recited in the claims of the above captioned patent application was recorded in writing in a confidential Invention Record (Docket) No. H0001886 on or before November 15, 2000.

6. On personal knowledge the invention recited in the claims of the above captioned patent application was disclosed in writing in a confidential Invention Record (Docket) No. H0001886 on or before November 29, 2000.

7. On information and belief the invention recited in the claims of the above captioned patent application was disclosed in a U.S. Provisional patent application Serial No. 60/262,474, filed in the names of Richard Olzak and Tehmosp Khan on January 17, 2001, entitled: *ADAPTER FOR PLASTIC-LEADED CHIP CARRIER (PLCC) AND OTHER SURFACE MOUNT TECHNOLOGY (SMT) CHIP CARRIERS.*

8. On information and belief the invention recited in the claims of the above captioned patent application was disclosed in a U.S. Nonprovisional patent application Serial No. 10/052,715, filed in the names of Richard Olzak and Tehmosp Khan on January 17, 2002, entitled: *ADAPTER FOR PLASTIC-LEADED CHIP CARRIER (PLCC) AND OTHER SURFACE MOUNT TECHNOLOGY (SMT) CHIP CARRIERS.*

The undersigned declares further that all statements made herein of his own knowledge are true and that all statements made on information and belief are believed to be true and further that these statements are made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

Inventor's Signature: \_\_\_\_\_

Post Office Address: 14263 - 122<sup>nd</sup> Avenue NE  
Kirkland, Washington  
U.S.A. 98034

Date: \_\_\_\_\_



**H n ywell CONFIDENTIAL  
ATTORNEY-CLIENT PRIVILEGED**

**Inventi n Record  
(D cket) No.:  
H0001886**

Origin Date: **SBE: 1543 - Rdmnd., WA - AIR TRANSPORT & REGIONAL**  
11/15/2000

Attorney(s): **Suchodolski, Jeanne C**

File Location: **RD - Redmond, WA**

Title: **ADAPTER 68/44 PLCC**

**Inventor: Olzak, Richard A  
Address: 14263 122 ave. N.E., Kirkland,  
Wa 98034**

**Phone: 425-885-8220 Fax:  
425-885-8187**

**Citizenship: U.S.**

**Inventor: Khan, Tehmosp  
Address: 1831 N 163rd street, shoreline,  
wa 98133**

**Phone: 206-553-8110 Fax:  
425-885-8187**

**Citizenship: US**

**SSN: \*\*\*\*\***

**County: King**

**Supervisor: Andy Chu**

**SSN: \*\*\*\*\***

**County: King**

**Supervisor: Wendel Frost**

**1. Briefly describe the technical or commercial problem or need that this invention is intended to solve.  
68 PIN PLCC parts have become obsolete but are used in many products. a 44 pin PLCC is a  
replacementnt functionally and conveniently smaller but will not attach to a printed wiring board in the  
footprint of the 68 pin part it replaces. Normally a board must be redesigned and re-layed out to  
accomodate teh new,smaller part. This takes considerabel time impacting schedules and involves financial  
investements that may not be easily justified on legacy products with a limited future.**

**2. Briefly describe how this invention solves the problem or meets the need.  
The adapter is an invention to accomodate the difference in footprints. It will attach to the printed wiring  
board in a conventional manner utilizing the noraml soldering process and then accept the smaller PLCC  
part and route the signals from one size PLCC to the other size PLCC without loss or interruption.**

**3. Describe how to make and use the invention. Please indicate which embodiment(s) are preferred and describe the  
best way known to you to practice the invention. Attach relevant documents. (If the invention is a device or process,  
please provide a drawing or flow chart.) (If you are unfamiliar with the contents and preparation of a patent  
application, please refer to the Guidelines for the Preparation of Invention Disclosures.  
The adaper is fabricated using convetional printed wirng board construcion metnhods. Teh secrte of sucess  
is the unique shape of the adapter pass-through conduits that allow visual alignment and verification of  
joint integrity on a small package frame insuring viablity of all connections, which is a critical consideration  
on miniture devices.**

**Document(s):**

**4(a). To the best of your recollection what is the earliest date on which the invention was conceived? Who  
conceived the invention? Attach documents which evidence the foregoing.**

**Conception Date: 9-15-00**

**Who conceived it?: Richard Olzak**

**Document(s):**

---

4(b). Is there a non-inventor who witnessed the conception? If so, please identify him/her and attach any documents which evidence the witnessing.

no

Witness Name:                      Witness Phone:      Document(s):

---

5(a). To the best of your recollection, what is the earliest date on which the invention was reduced to practice (i.e. made)? Who reduced the invention to practice. Attach documents which evidence the foregoing. If no reduction to practice, type "n/a".

First Practice Date: 10-16-00

Who reduced it to practice?: Richard Olzak Document(s):

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5(b). Is there a non-inventor who corroborated the reduction to practice? If so, please identify him/her, the corroborating activity (i.e., over-the-shoulder corroboration or repeating the experiment), and the date of the activity. Attach documents which evidence the foregoing.

Non-inventor corroborator?:      First  
no                                      Corroborator      First Corroborator Phone:  
Name:

First Practice  
Corroboration Date:  
10-15-00

First Practice Corroborator Activity:  
TYCO International fabricated the part only.

Document(s) related to corroboration event:

---

5(c). For each example of the invention and each comparative example on which you intend to rely in the patent application, please indicate when the example was generated, who conducted the experiment and where this example is recorded (e.g., volume, page and author or laboratory notebook) and attach a copy of these records. If no example available, type "n/a".

Example(s): 11-9-00

Who conducted the experiment?: Richard Olzak

Where is example recorded?: 623-3948-001 Document(s):

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6(a). Did this invention arise in a program that is funded in whole or part by the U.S. Government or another company, or any entity other than Honeywell?

No

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6(b). If so, please identify the program (including government contract number, if applicable) and the entity sponsoring the program and provide a copy of any agreement between the parties concerning the program.

Outside Funding Program:

Contract Number (if applicable):

Outside Funding Entity:

Document(s) related to funding agreement:

---

7(a). To your knowledge, is this invention subject to any agreement between Honeywell and a third party (e.g., a secrecy agreement, license agreement, joint development agreement, etc.)?

NO

7(b). If so, please identify the agreement and the other party and attach a copy of the agreement if one is available.

Third party agreement ID:

Third party name:

Document(s) related to any third party agreement:

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8. You have a duty to disclose to the U.S. Patent and Trademark Office all relevant prior art of which you are aware. Please list all such prior art (e.g., patents, publications, brochures, Honeywell and third-party products) known to you. If a prior art search has been conducted, it must be included. Briefly indicate how this invention is different from the prior art. See 1 and 2 above.

List of prior art:

How invention is different from the prior art:

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9(a). Has the product or process which is the subject of this invention disclosure been disclosed, sold or offered for sale to anyone outside of Honeywell or to the general public.

NO

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9(b). If so, when and to whom was it disclosed, sold or offered for sale? If it was disclosed, was a secrecy agreement in place? Attach documents which evidence the sale or offer for sale.

Date it was disclosed:

Whom disclosed to:

Disclosure Sales Agreement?:

Document(s) which evidence the sale or offer for sale:

---

9(c). Does the business intend to disclose, sell or offer to sell the invention to anyone outside of Honeywell or to the general public in the near future? If so, to whom and when is this disclosure, sale or offer for sale planned?

NO

For whom are future sales planned:

Date future sale is planned:

---

10(a). Does this invention relate to any other: (i) issued patents, (ii) pending patent applications, or (iii) previously submitted invention disclosures, of Honeywell?

NO

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10(b). If so, please identify the related matter and indicate whether this is an improvement on an earlier invention:

Other patents related matter is:

Is this an improvement?:

---

11. Please specify the product(s) to which this invention disclosure relates.

---

12. Please indicate keywords for identifying this invention disclosure.

Only one witness signature is required.

Witness  
Name: STEVEN J. LAWSON

Witness  
Signature: Steven J. Lawson

Date: 11-29-2000

Inventor  
Name: RICHARD A. OLZAK

Inventor  
Signature: Richard A. Olzak

Date: 11-29-2000

Inventor  
Name: \_\_\_\_\_

Inventor  
Signature: \_\_\_\_\_

Date: \_\_\_\_\_

Inventor  
Name: TEHMOSP KHAN

Inventor  
Signature: Tehmosp Khan

Date: Nov 29, 2000

Inventor  
Name: \_\_\_\_\_

Inventor  
Signature: \_\_\_\_\_

Date: \_\_\_\_\_

Inventor  
Name: \_\_\_\_\_

Inventor  
Signature: \_\_\_\_\_

Date: \_\_\_\_\_

Inventor  
Name: \_\_\_\_\_

Inventor  
Signature: \_\_\_\_\_

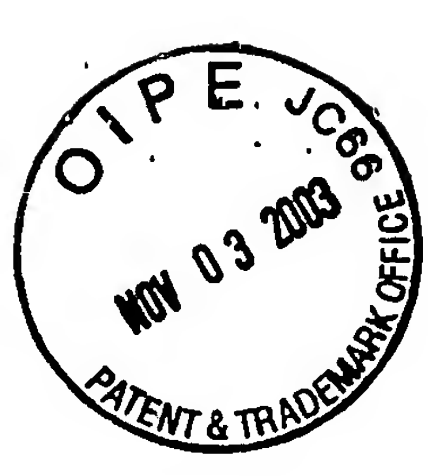
Date: \_\_\_\_\_

Inventor  
Name: \_\_\_\_\_

Inventor  
Signature: \_\_\_\_\_

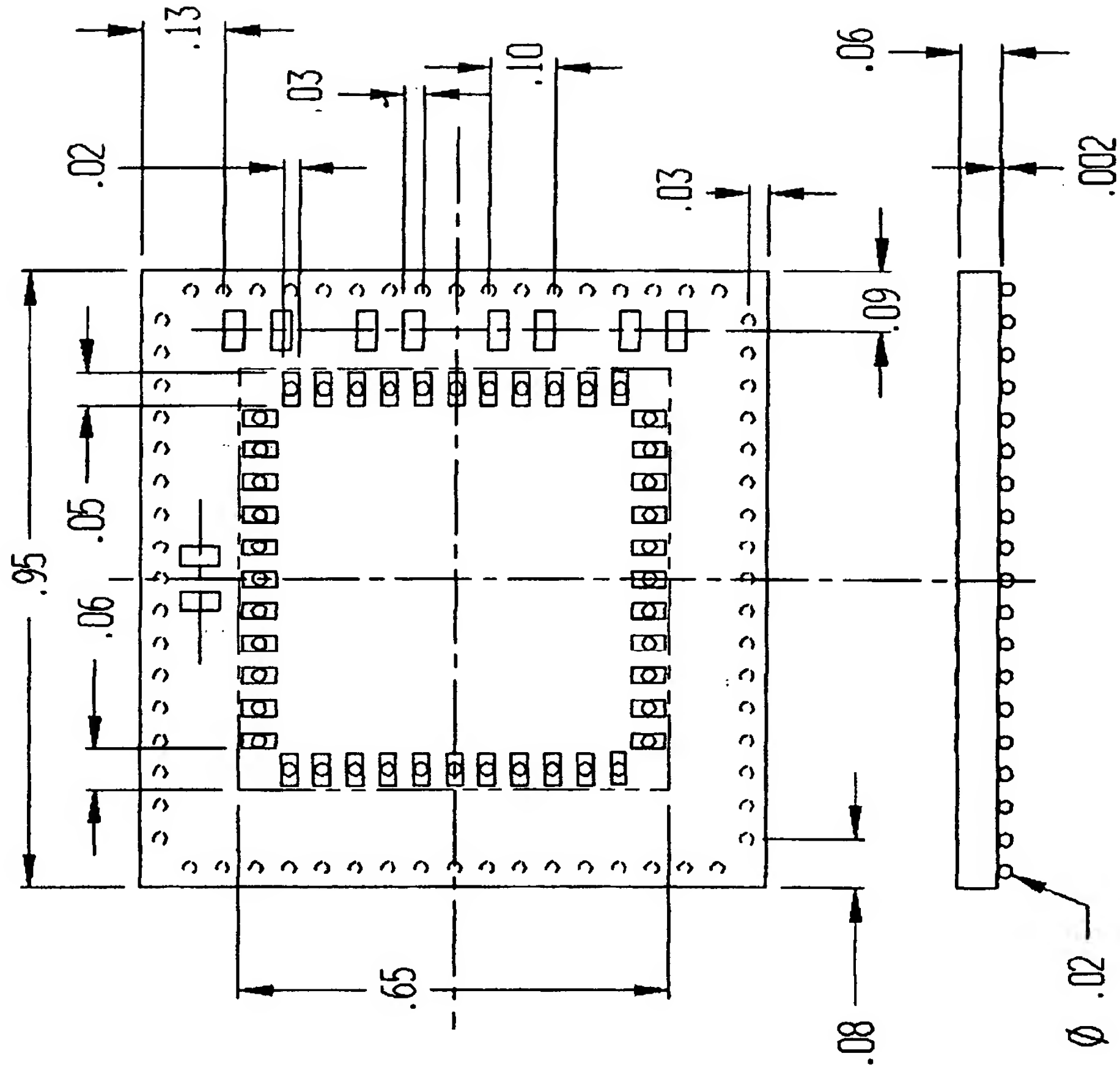
Date: \_\_\_\_\_

Send to:  
Jeanne C Suchodolski  
15001 NE 36th St., PO Box 97001  
Redmond, WA 98073-9701



ADAPTOR FOR 68 TO 44 PIN PLCC

FIG. 1

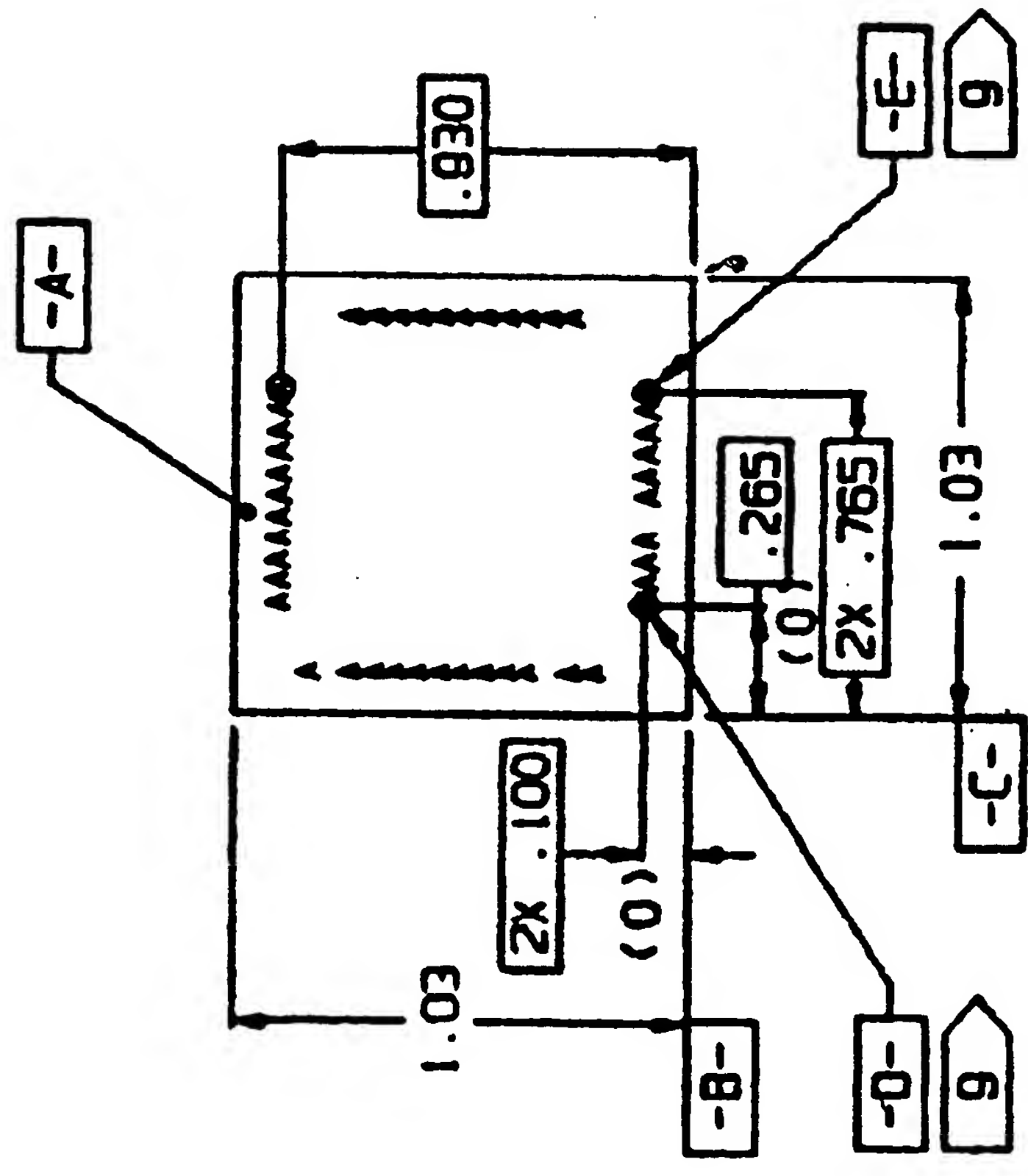


NOTE: SPACING .05





FIG. 2



DRILL PATTERN  
(VIEWED FROM PRIMARY SIDE)





FIG. 3

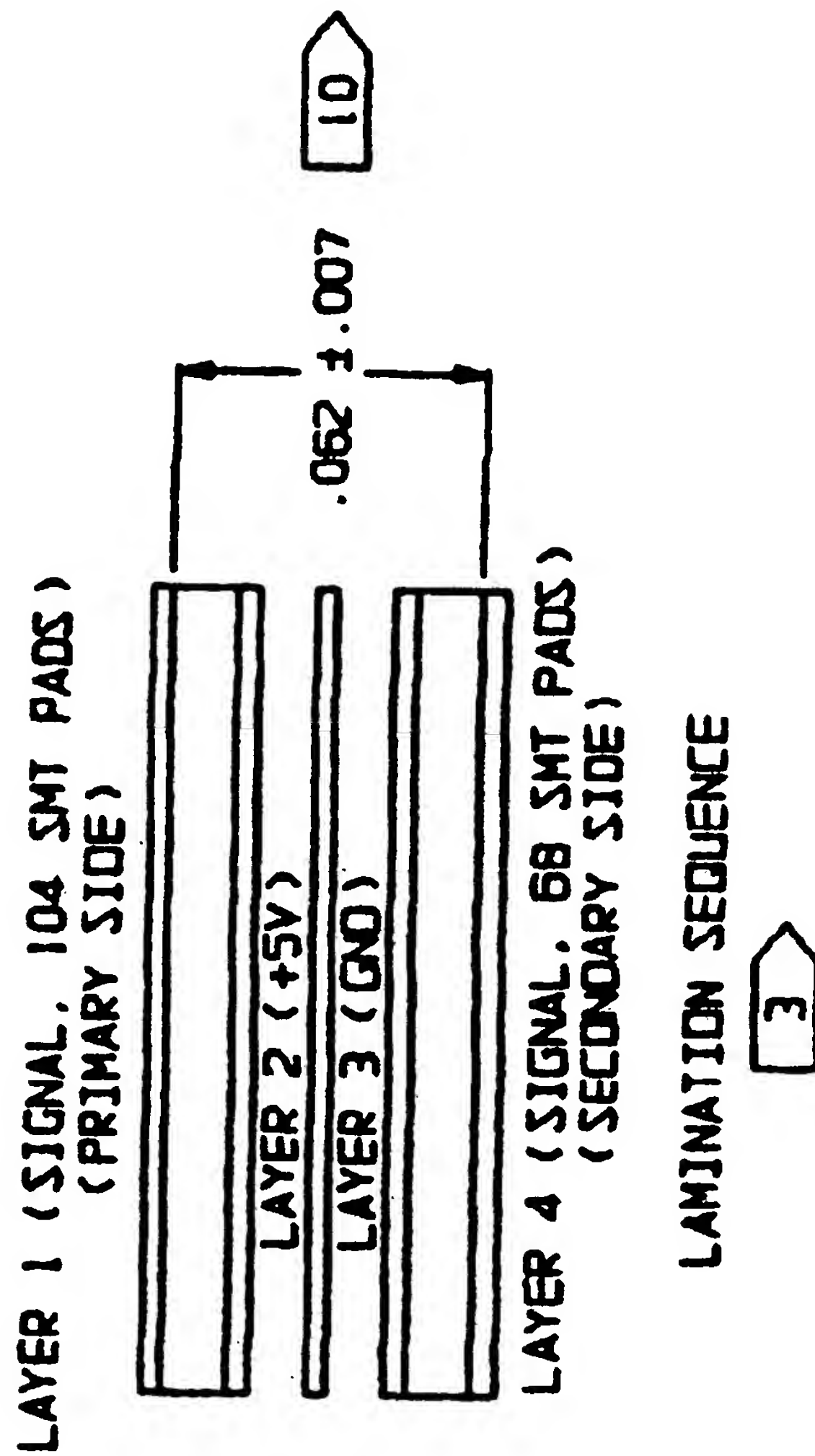




FIG. 4

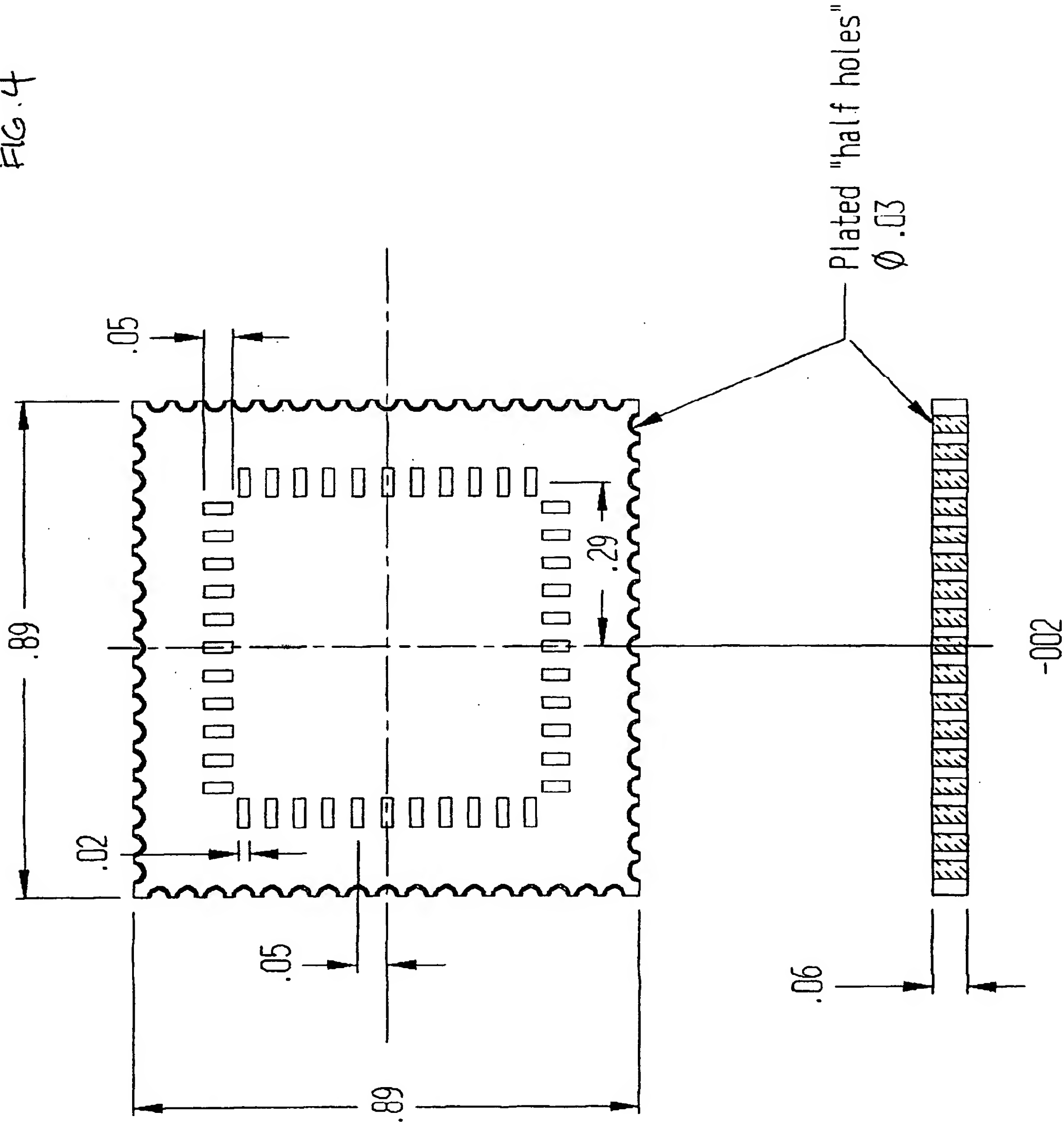
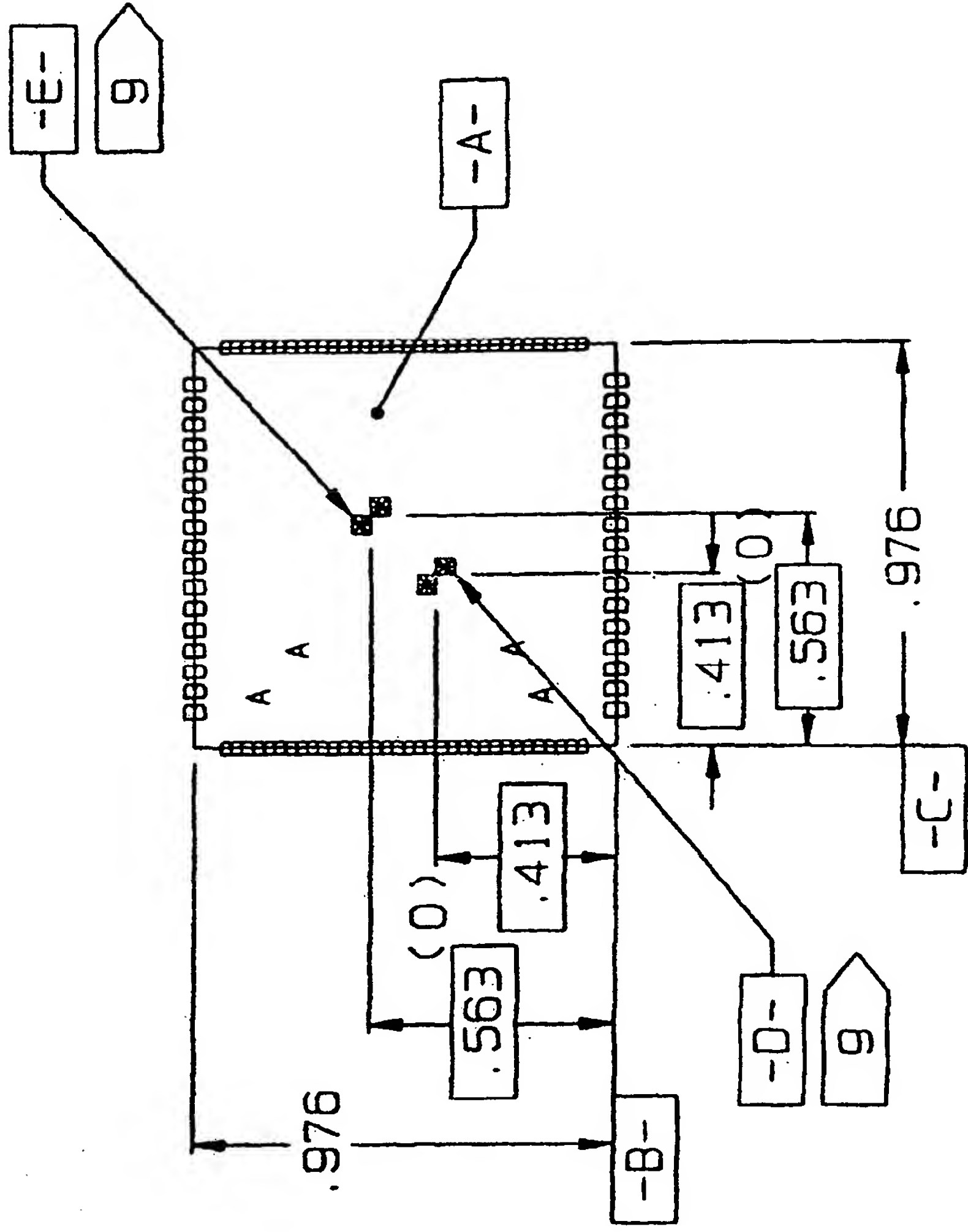


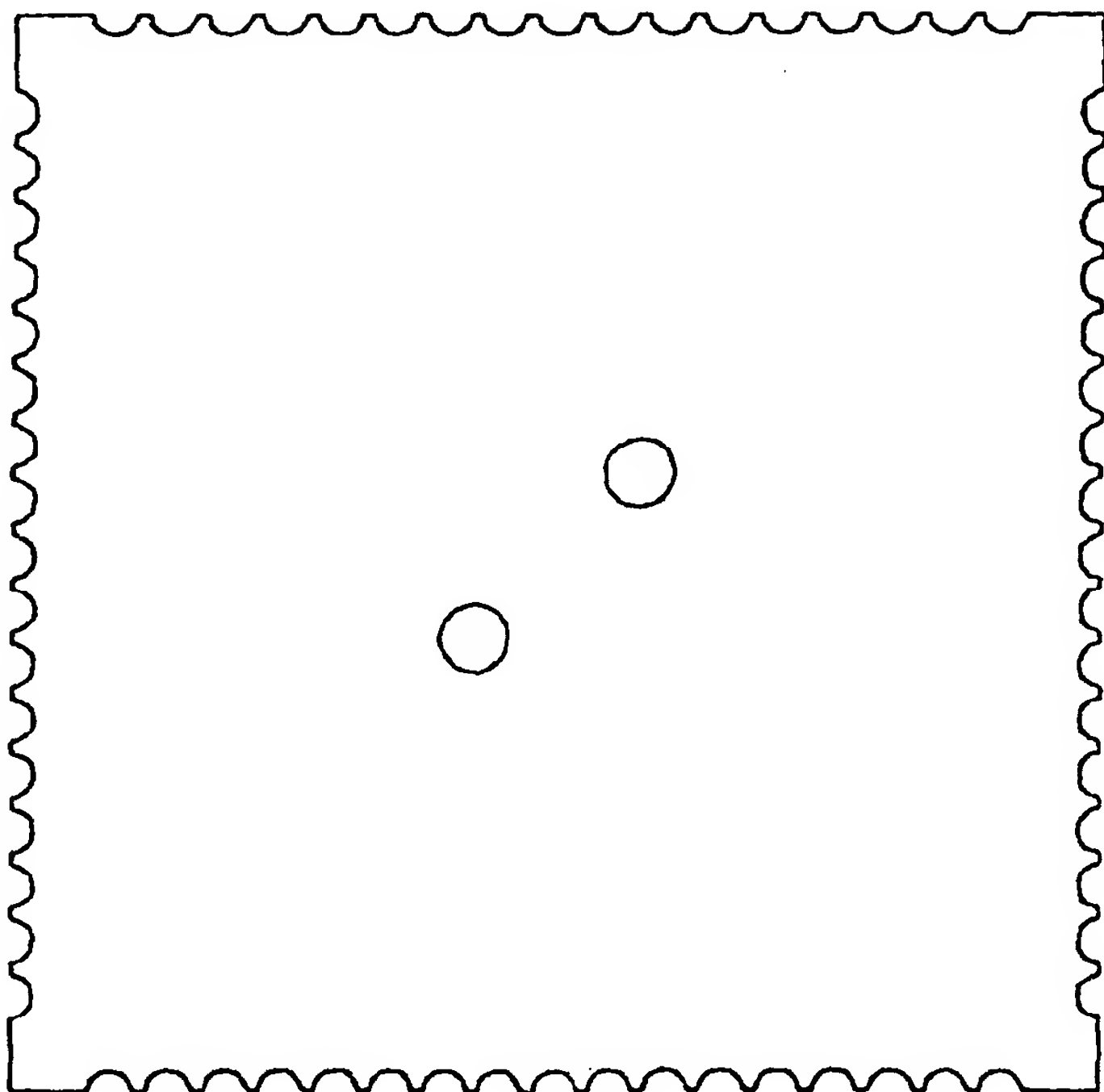
FIG. 5



DRILL PATTERN  
 (VIEWED FROM PRIMARY SIDE)



FIG. 6



AFTER MILLING